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	INFORMATION DISCLOSURE	Application Number	09/645,706		
		Filing Date	August 24, 2000		
	STATEMENT BY APPLICANT	First named Inventor	Keith V. Wood		
		Group Art Unit	1652		
	(use as many sheets as necessary)	Examiner name	Rebecca E. Prouty		
	Sheet 1 of 1	Attorney Docket Number	016026-9440-US00		
		U.S. Patent Documents			
Examiner Initials	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document		
	2004/0146987	Zdanovsky et al.	7/29/2004		
	2005/0032085	Labas et al.	2/10/2005		
	2006/0183212	Wood et al.	8/17/2006		
	2009/0191622	Almond et al.	7/30/2009		

	FOREIGN PATENT DOCUMENTS							
Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract		
	JР	8510837	Cornell Research Foundation	11/12/1996		Y		
	wo	02/094992	Rigel Pharmaceuticals, Inc.	11/28/2002				
	wo	03/042401	Clon-Tech Laboratories	5/22/2003				

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INFOR	MATION	N DISCL	OSURE	Filing Date	August 24, 2000
STATEMENT BY APPLICANT				First Named Inventor	Keith V. Wood
				Group Art Unit	1652
	(use as many she	ets as necessary)	Examiner Name	Rebecca E. Prouty
Sheet	1	of	6	Attorney Docket Number	016026-9440-US00

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	"Sequence of pcdna3.1/Hygro," [Retrieved from the Internet http://www.invitrogen.com/content/sfs/vectors/pcdna3.1 hygro_seq.txt] (2005) 2 pages)
	ALBERTS, "Intron sequences are removed as lariat-shaped RNA molecules," Mol. Cell Biol. (1994) 3:373-374
	BOWIE, J.U. et al., "Deciphering the message in protein sequences: tolerance to amino acid substitutions," Science (1990) 247(4948):1306-1310
	BRANCHINI, B.R., "Naphtyl- and quinolylluciferin: green and red light emitting firefly luciferin analogues," Photochem. Photobiol. (1989) 49(5):689-695
	CAMERON, "Recent advances in transgenic technology," Mol. Biol. (1997) 7:253-265
	DELUCA, M. et al., "The hydrolase properties of firefly luciferase," Biochem. Biophys. Res. Comm. (1965) 18(5-6):836-842
	DELUCA, M. et al., "Role of sulfhydryl groups in firefly luciferase," Biochem. (1964) 3(7):935-939
	DEVINE, J.H. et al., "Luciferase from the East European firefly luciola mingrelica: cloning and nucleotide sequence of the cDNA, overexpression in escherichia coli and purification of the enzyme," Biochim. et Biophys. Acta (1993) 1173:121-132
	DORSKY, R.I. et al., "A transgenic Lef1/beta-catenin-dependent reporter is expressed in spatially restricted domains throughout zebrafish development," Dev. Biol. (2002) 241:229-237

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INFOR	MATION	N DISCL	OSURE	Filing Date	August 24, 2000
STATEMENT BY APPLICANT				First Named Inventor	Keith V. Wood
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	FERBITZ, L., "A synthetic gene coding for renilla luciferase is a versatile expression marker in green algae," GenBank Sequence Accession No. AAF93166 (8/8/2000) 2 pages
	Genbank Deposit Accession No. AF384683, "Montastraea cavernosa green fluorescent protein mRNA," Complete cds, Version AF384683.2 GI: 15298095, August, 2001, 1 page
	Genbank Deposit Accession No. AY037770, "Montastraea cavernosa meavFP_7.5 mRNA," Complete cds, Version AY037770.1 GI:19982596, April 2002, 1 page
	Genbank Deposit Accession No. AY056460, "Montastraea cavernosa cyan fluorescent protein mRNA," Complete cds, Version AY056460.1 GI:16508124, October 2001, 1 page
	GLASS, R.E. et al., "Gene function: E.coli and its heritable elements," University of California Press (1982) 95
	KELLER, G-A. et al., "Firefly luciferase is targeted to peroxisomes in mammalian cells," Proc. Natl. Acad. Sci. USA (1987) 84:3264-3268
	KOZAK, M., "An analysis of 5'-noncoding sequences from 699 vertebrate messenger RNAs," Nucl. Acids Res. (1987) 15(20):8125-8132
	LABAS, Y.A. et al., "Diversity and evolution of the green fluorescent protein family," Proc. Natl. Acad. Sci. USA (2002) 99(7):4256-4261
	LECLERC, G.M. et al., "Development of a destabilized firefly luciferase enzyme for measurement of gene expression," Biotechniques (2000) 29(3):590-601

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				Application Number	09/645,706
INFOR	MATION	N DISCL	OSURE	Filing Date	August 24, 2000
STATEMENT BY APPLICANT				First Named Inventor	Keith V. Wood
				Group Art Unit	1652
	(use as many she	ets as necessary)		Examiner Name	Rebecca E. Prouty
Sheet	3	of	6	Attomey Docket Number	016026-9440-US00

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	LESSER, M.P. et al., "Montastraea cavernosa green fluorescent protein mRNA, complete cds," GenBank Accession No. AF406766 (9/2/2001) 2 pages
	LESSER, M.P. et al., "Montastraea faveolata green fluorescent protein mRNA, complete cds," GenBank Accession No. AF401282 (8/5/2001) 2 pages
	LISSER, S. et al., "Compilation of E.coli MRNA promoter sequences," Nucl. Acids Res. (1993) 21(7):1507-1516
	LODISH et al., "Splicesomes, assembled from snRNPs and a pre-mRNA, carry out splicing," Chapter 11, RNA Processing, Nuclear Transport, and Post-Transcriptional Control, Mol. Cell Biol. (2000) 4:416-418
	MATZ, "Amplification of representative cDNA samples from microscopic amounts of invertebrate tissue to search for new genes," Institute of Bioorganic Chemistry RAS (2002) 1-21
	MATZ, M.V. et al., "Fluorescent proteins from nonbioluminescent anthozoa species," Nat. Biotech. (1999) 17(10):969-973
	MATZ, M.V. et al., "Montastraea cavernosa clone 7.7 green fluorescent protein-like protein mRNA, complete cds," GenBank Accession No. AY037768 (5/31/2001) 2 pages
	PETIT, T. et al., "A mutation Ser 213/Asn in the hexokinase 1 from schizosaccharomyces pombe increases its affinity for cluesses," Biochem. Biophys. Res. Comm. (1998) 251(3):714-719
	QUANDT, K. et al., "MatInd and MatInspector: new fast and versatile tools for detection of consensus matches in nucleotide sequence data," Nucl. Acids Res. (1995) 23(23):4878-4884

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INFOR	MATION	DISCL	OSURE	Filing Date	August 24, 2000
STATE	MENT E	Y APPL	ICANT	First Named Inventor	Keith V. Wood
				Group Art Unit	1652
	(use as many she	ets as necessary))	Examiner Name	Rebecca E. Prouty
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	RINGQUIST, S. et al., "Translation initiation in escherichia coli: sequences within the ribosome-binding site," Mol. Microbiol. (1992) 1219-1229
	ROBINSON, M. et al., "Codon usage can affect efficiency of translation of genes in escherichia coli," Nuc. Acids Res. (1984) 12(17):6663-6671
	TABASKA, J.E. et al., "Detection of polyadenylation signals in human DNA sequences," Gene (1999) 77-86
	TURKEL, S. et al., "GCR-1 dependent transcriptional activation of yeast retrotransposon Ty2-917," Yeast (1997) 13(1):917-930
	WOOD, K.V., "Luciferases of luminous beetles: evolution, color variation, and applications," Dissertation (1989), submitted as two parts, Part 1 and Part 2
	Canadian Patent Office Action for Application No. 2,420,328 dated December 7, 2009 (3 pages)
	European Patent Office Summons to Attend Oral Proceedings for Application No. 01964425.1 dated February 8, 2008 (11 pages)
	European Patent Office Action for Application No. 05797929.6 dated March 8, 2010 (4 pages)
	International Search Report for Application No. PCT/US01/26566 dated February 28, 2003 (7 pages)

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Substitute for fi	orm 1449B/PTO				Complete if Known	
Substitute for a	JIII 147DJ 10			Application Number	09/645,706	
INFOR	MATION	DISCL	OSURE	Filing Date	August 24, 2000	
STATE	MENT E	Y APPL	ICANT	First Named Inventor	Keith V. Wood	
~				Group Art Unit	1652	
	(use as many she	ets as necessary)		Examiner Name	Rebecca E. Prouty	
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	Written Opinion for Application No. PCT/US2005/033218 dated March 31, 2006 (8 pages)
	Japanese Patent Office Action for Application No. 2002-521985 mailed March 16, 2007 (11 pages) with English translation
	Japanese Patent Office Action for Application No. 2002-521985 mailed January 5, 2010 (8 pages)
	Japanese Patent Office Action for Application No. 2006-288147 mailed December 3, 2008 (7 pages) with English translation
	Japanese Patent Office Action for Application No. 2006-288147 mailed September 16, 2009 (2 pages) Japanese only
	United States Patent Office Action for Application No. 11/316,042 dated April 2, 2009 (8 pages)
	United States Patent Office Action for Application No. 11/316,042 dated September 4, 2009 (15 pages)
	United States Patent Office Action for Application No. 11/786,785 dated August 4, 2009 (16 pages)
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INFOR	MATION	DISCL	OSURE	Filing Date	August 24, 2000
STATE	EMENT B	Y APPL	ICANT	First Named Inventor	Keith V. Wood
511111				Group Art Unit	1652
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Sheet	6	of	6	Attomey Docket Number	016026-9440-US00

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	United States Patent Office Notice of Allowance/Office Action for Application No. 10/943,508 dated September 29, 2008 (7 pages)
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